

**TRANSMITTAL OF  
UTILITY  
APPLICATION  
UNDER 37  
C.F.R. §1.53**

Attorney Docket No.	24736-2073
Customer No.	24961
First Named Inventor	VAN DEN BOOM
Express Mail Label No.	EV 417728346 US
Date of Mailing	November 26, 2003

22388 U.S.P.T.O.  
10/723365



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<b>Application Elements</b>		<b>Accompanying Application Papers</b>
<p>1. [X] Fee Transmittal Form</p> <p>2. [X] Specification containing <u>160</u> pages (including claims and Abstract).</p> <p>a. Title: <b>FRAGMENTATION-BASED METHODS AND SYSTEMS FOR SEQUENCE VARIATION DETECTION AND DISCOVERY</b></p> <p>b. Number of claims: <u>73</u></p> <p>3. [X] <u>4</u> sheets of drawings with <u>1-4</u> Figure(s).</p> <p>4. [ ] Unexecuted Declaration listing name of inventor(s).</p> <p>5. [X] Sequence Listing (<u>41</u> pages):</p> <ul style="list-style-type: none"> <li>[X] Paper copy (identical to computer copy)</li> <li>[X] Computer readable copy</li> <li>[X] Verified Statement</li> </ul>		<p>6. [ ] Copy of Assignments from prior application</p> <p>7. [X] Small Entity Status is claimed</p> <p>8. [ ] Preliminary Amendment</p> <p>9. [X] Return Receipt Postcard</p>
<p><b>SIGNATURE OF ATTORNEY/AGENT</b></p> <p>HELLER EHRLMAN WHITE &amp; McAULIFFE LLP</p>  <p>Stephanie Seidman Registration Number: 33,779</p>		

[X] Benefit of priority under 35 U.S.C. Section 119(e) is claimed to U.S. Provisional Application Serial No. 60/429,895, filed November 27, 2002. The subject matter of each of the Provisional applications is incorporated by reference in its entirety.

**CORRESPONDENCE ADDRESS**

NAME	Stephanie Seidman Registration No. 33,779 Heller Ehrman White & McAuliffe LLP	
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**FEE TRANSMITTAL  
ACCOMPANYING UTILITY  
APPLICATION UNDER  
37 C.F.R. §1.53**

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**FEE CALCULATION FOR CLAIMS AS AMENDED**

a) Basic Fee	\$ 770.00
b) Independent Claims $\frac{9}{9} - \frac{3}{3} = \frac{6}{6} \times \$ 86.00$	\$ 516.00
c) Total Claims $\frac{73}{73} - \frac{20}{20} = \frac{53}{53} \times \$ 18.00$	\$ 954.00
d) Fee for Multiple Dependent Claims- \$290.00	\$ 0.00

**TOTAL FILING FEE**      **\$ 2,240.00**

- [X] Status as Small Entity is claimed, reducing Fee by one-half to **\$ 1,120.00**.
- [X] A check in the amount of **\$ 1,120.00** to cover the fee for filing the application.
- [ ] Charge **\$ .00** to Deposit Account No. 50-1213.
- [X] The Commissioner is hereby authorized to charge any fees, including the filing fee and excess claims fee, that may be required in this application under 37 C.F.R. §§ 1.16-1.17 during its entire pendency, or credit any overpayment, to Deposit Account No. 50-1213. If proper payment is not enclosed, such as a check in the wrong amount, unsigned, post-dated, otherwise improper or informal, or absent, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213 during the entire pendency of this application. This sheet is filed in duplicate.

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Submitted by:

Typed or printed name	Stephanie Seidman	Reg. Number	33,779
Signature		Date	11/26/03